

# **Automated versatile press** for label and flexible packaging



**FLEXO PRINTING**

**MASTER M5**

At a glance



# Advancing flexibility

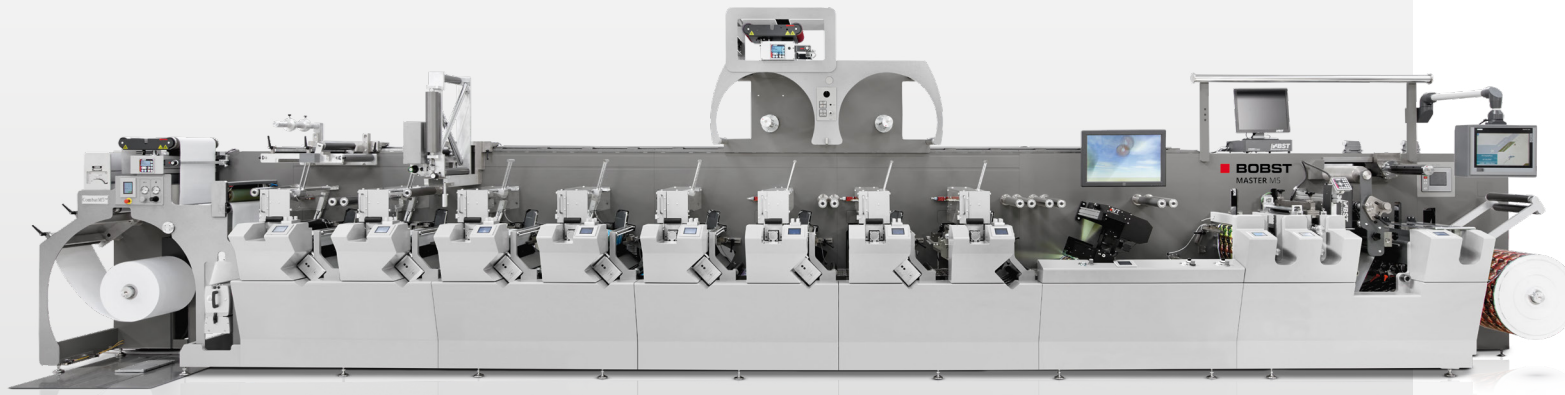
Built for full digitalization of the production workflow, the **MASTER M5** is the ultimate press for converters willing to automate their production line, with systems and solutions that reduce downtime and waste. Configurable with print cylinders or sleeves, the machine is ready to be equipped with oneECG technology, delivering repeatable consistency run after run irrespective of the application run length, and minimizing ink consumption and stock.



GO TO THE  
CONFIGURATOR

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Outstanding productivity oneECG ready

Precision and quality consistency

More uptime, top efficiency

REQUEST  
CONSULTING

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# Creating value

**BOBST innovations**  
are driven by customer  
and brand owner needs.

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## Safety

Food safety and brand protection are major requirements. Anti-counterfeiting and traceability are required across the entire supply chain.

## Customization, versioning, personalization

Packaging needs to reach all segments of society taking almost any shape and size across multiple job lengths across the globe.

## Color control and brand image

Color consistency and control across all substrates needs to be guaranteed for brands to look good across the globe.

## Sustainability

Packaging production needs to reduce its environmental carbon footprint – less waste across the entire supply chain. New and thinner substrates. Recycling and re-use are the new rules.

## Faster time-to-market

A growing number of products need to reach consumers faster. Product lifetime is shorter. From product design to the consumer experience, the supply chain has to be more agile.



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### Exceptionally flexible

- Ideal for long runs and short runs with high-quality and profitability
- Handles various types of substrates used for the production of labels, flexible packaging and specialties
- Multi-process, product enhancing inline finishing applications
- Lamination technologies: solventless, solvent-based, water-based
- Cast and cure
- Cold foil and hot foil
- Multi-layer coupon labels
- Multiple printing processes available: flexo, silk screen, gravure



### Fast and uninterrupted production

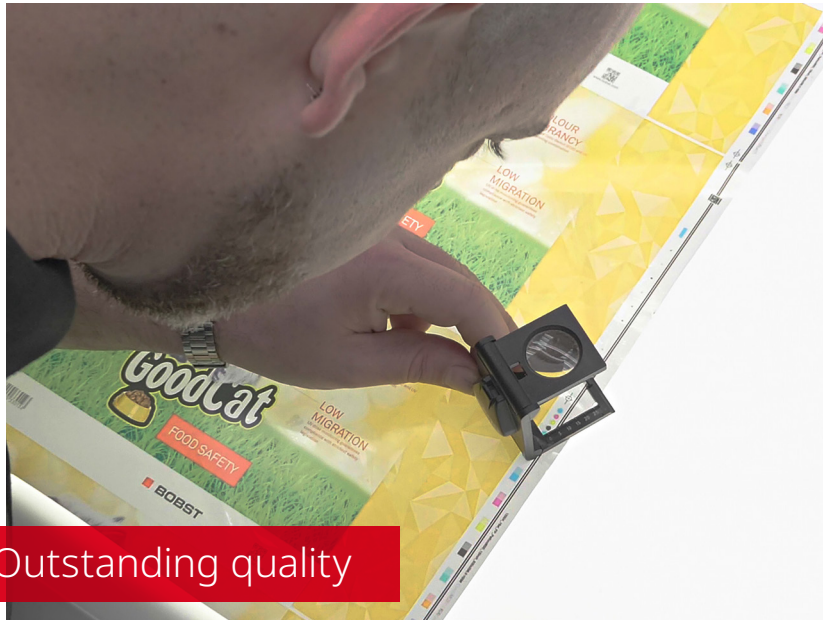
- Very high press uptime, very fast time-to-market
- DigiFlexo for automatic register control and printing pressure adjustment and DigiGap for automated die-cutting pressure control. They provide the shortest set-up time, minimal waste and consistent quality during production

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Outstanding quality

- Very accurate web-tension control from unwinder to rewinder
- Flexo printing units with over-dimensioned chilled drums for positive web transportation on the most critical substrates
- Automatic pre-register setting
- ARC automatic print-to-cylinder register control
- SnowBall Lite and Bambi technologies for high speed waste matrix rewinding with difficult materials and/or label shapes
- Easy drop-in technology for fast interchangeability of flexo, silk screen and hot foil. Ready in few minutes



Sustainable, easy to run, connected

- Very short set-up time and waste
- Digital automation ensuring productivity and process repeatability
- Very easy to run for less experienced operators
- Minimum and tool-free operator intervention
- Touch panel on each print unit and main touch screen HMI
- Production data accessible from remote devices

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| 1 | MASTER M5 |           |
|---|-----------|-----------|
|   | 2 m       | 6.56 ft*  |
| 2 |           |           |
|   | 3 m       | 9.84 ft*  |
| 3 |           |           |
|   | 11 m      | 30.09 ft* |

\*Measurements as per machine configuration featured above: Web width 430 mm - 17 in, 8-colors, 3 die-cutting units. Values may vary according to the configuration.

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## Materials handled

### Substrates

Self-adhesive stock (paper, PET, BOPP, PVC), glossy paper 60 to 100 gsm, unsupported film from 12 µ (PVC, BOPP, PET, PA), alu-foil from 20 µ, lamitubes, light cardboard up to 300 gsm

## Capability

|                                             |                  |             |
|---------------------------------------------|------------------|-------------|
| Drive                                       |                  | Full servo  |
| Gear pitch                                  | 3.175 mm         | 1/8 in      |
| Number of printing units                    |                  | Unlimited   |
| Flexo cylinder repeat, min-max              | 139.5 - 609.5 mm | 5.5 - 24 in |
| Flexo sleeve print cylinder repeat, min-max | 305 - 609.5 mm   | 12 - 24 in  |
| Web width*                                  | 370 mm           | 14.5 in     |
|                                             | 430 mm           | 17 in       |
|                                             | 530 mm           | 21 in       |
| Speed, max                                  | 200 m/min        | 660 ft/min  |
| Min. web path per unit (print to print)     | 1395 mm          | 54.92 in    |
| Unwinding diameter, max                     | 1000 mm          | 39 in       |
| Rewinding diameter, max                     | 1000 mm          | 39 in       |

\*Print width: less 10mm

## Die-cutting

|                                    |                  |            |
|------------------------------------|------------------|------------|
| Number of units                    |                  | 3+         |
| Repeat, min-max (370 mm - 14.5 in) | 279.5 - 609.5 mm | 11 - 24 in |
| Repeat, min-max (430 mm - 17 in)   | 305 - 609.5 mm   | 12 - 24 in |
| Repeat, min-max (530 mm - 21 in)   | 355.5 - 609.5 mm | 14 - 24 in |
| Matrix roll diameter               | 700 mm           | 27.5 in    |
| SnowBall Lite                      |                  | Standard   |
| Bambi                              |                  | Available  |
| Metronome                          |                  | Available  |

## Automation

|                        |           |
|------------------------|-----------|
| Automatic pre-register | Standard  |
| Automatic register     | Standard  |
| DigiFlexo              | Available |
| Excellence             | Available |
| DigiGap                | Available |

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### Dryers

|                                                                    |                 |
|--------------------------------------------------------------------|-----------------|
| UV on 27 in chilled drum                                           | Standard        |
| UV LED                                                             | Available       |
| Hot air/IR dryers                                                  | Available       |
| Multiple drying options for UV, water-based and solvent-based inks | UV, IR, hot air |

### Accessories

|                                         |           |
|-----------------------------------------|-----------|
| Rail                                    | Available |
| Web turn bars                           | Available |
| Delam Relam, up to 3 colors on adhesive | Available |
| Combo laminator and cold foil           | Available |
| Lamination                              | Available |
| DigiGold                                | Available |
| Coupon: Combo 2 layers                  | Available |
| QN3/5: 3 to 5 layers booklet labels     | Available |

### Printing

|                                         |                |                |           |
|-----------------------------------------|----------------|----------------|-----------|
| Sleeve type print unit version          |                |                | Available |
| oneECG process                          |                |                | Available |
| Hot foil stamping print repeat, min-max | 305 - 609.5 mm | 12 - 24 in     | Available |
| Gravure print unit repeat, min-max      | 330 - 660 mm   | 13 - 26 in     | Available |
| Silk screen repeat, min-max             | 305 - 641 mm   | 12 - 25 1/4 in | Available |

### Product types

|                                           |
|-------------------------------------------|
| PSA labels                                |
| Wet glue labels                           |
| Linerless labels                          |
| In-mould labels                           |
| Wrap around labels                        |
| Shrink sleeves                            |
| Multi-layer peel-and-reseal coupon labels |
| Labels combining all methods              |
| Flexible packaging                        |
| Aluminium foil packaging                  |
| Laminated tubes                           |
| Lottery tickets and security products     |

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### Delam-Relam

Enables printing up to 3 colors on the adhesive for back side printing or multi-layer labels



### Cold foil stamping

Cold stamping of glossy metallic effects with lower plate costs and higher speeds, using a Flower flexo head.

- Highly accurate control of foil tension on unwind and rewind shaft
- High precision adjustment of laminating pressure
- Multiple foils on the same shafts
- Movable on each print unit



### Hot foil stamping

Hot foil stamping enables to create graphics that are visually compelling and have a huge impact in improving brand recognition and the perceived quality of a product. The DigiGold digitally automated hot foil stamping solution delivers very fast, easy and repeatable set-ups, with digital pre-setting of job pressures. The unit is movable on each Flower print head



### Multiple web-handling expertise

BOBST technologies for multiple web handling allow a wide range of possible multi-layer label configurations.

- Combo: 2-layer coupon labels
- QN3/5: 3 to 5 layers booklet labels

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### Silk screen

Ideal process for applications that need high coverage, accuracy of detail and color strength such as:

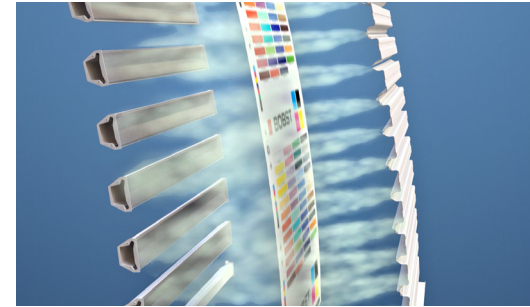
- Tactile
- Braille
- Matt and gloss effect
- Security printing
- Printing of high brilliance color on transparent substrate



### Gravure unit

Heavy-duty high speed gravure unit developed in synergy with the BOBST Gravure Center of Excellence's team. Slide-in/Slide-out system for fast change of all elements of the print units

- Cold seal and heat seal lacquers
- Metallic inks
- Security applications



### Choice of dryers

Different type of dryers are available for water and solvent-based applications. Modular design to adapt to specific requirements according to ink systems, coverage, and production speed. The corrosion-resistant components make all dryers suitable for water-based applications.

- Dryer's lengths from 0.5 to 8.0 m
- Multiple heat sources according to customer requirements
- Exclusive drying technology for higher speed and efficiency

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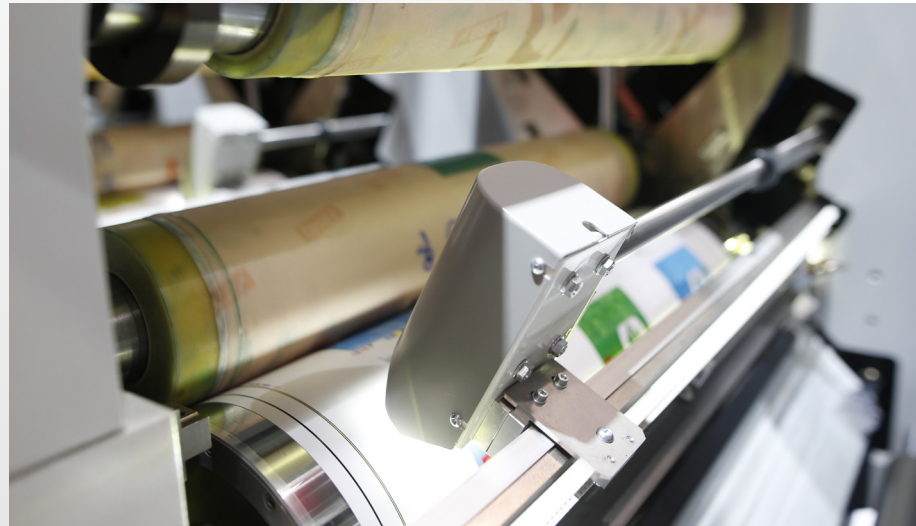
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# Automation in flexo printing

A BOBST exclusive technology program, DigiFlexo Automation uses a wide range of new digital technologies to make printing and converting operations repeatable, quality-driven, consistent and highly efficient.

## DigiFlexo Automation benefits:

- Optimization of print and die-cutting quality with less dependence on operator skills
- Repeatability of print and die-cutting quality job after job
- Reduction of material waste
- Reduction of setup times
- Maximization of productivity and profitability



## Product

|                 |                                                                              |
|-----------------|------------------------------------------------------------------------------|
| PrintTutor      | Automatic setting and control of lateral and longitudinal print registration |
| PrintTutor Plus | Automated digital printing pressure pre-set and adjustment during production |
| Excellence      | Automatic exchange of print cylinders, without stopping the press            |
| DigiGap         | Digital gap and pressure control for accurate die-cutting pressure           |
| ExcelDie        | On-the-fly die change with 2 coordinated DigiGap units                       |
| QuickCut        | Automatic waste separation system from the web, in combination with Snowball |

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# Driving the industry transformation

BOBST offers the ability to view, understand and test printing and converting solutions in its Competence Centers. Physical or virtual visits with our experts are completely tailored to client's requirements and needs.



Firenze, Italy

BOBST's new Competence Center for Labels and Packaging, in Florence, is a hub dedicated to the full label printing portfolio, including inline flexo, All-in-One and digital solutions.



**MORE INFO**



Atlanta, USA

BOBST's new Atlanta Competence Center is a state-of-the-art hub showcasing our inline flexo, as well as digital and All-in-One solutions for labels and flexible packaging printing.



**MORE INFO**

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**REQUEST A DEMONSTRATION**

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# What is oneECG?

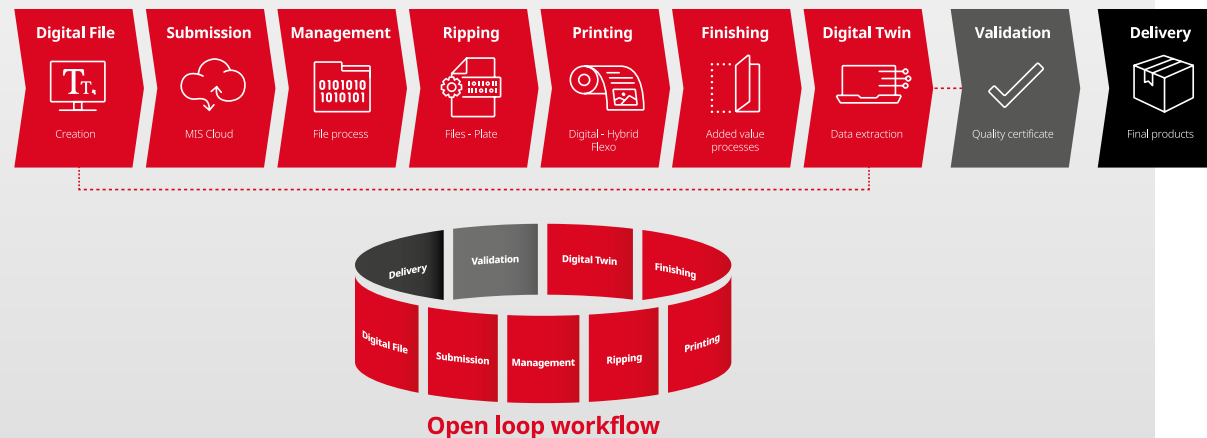
oneECG is BOBST contribution to the pioneering project set up in 2013 by a team of leading industry suppliers in the label and packaging industry with a view to digitalize the flexo process. Together they developed the DigiFlexo printing technology and a turnkey process named REVO that closes the gap between digital inkjet and traditional flexo, offering very productive process and presses that combine non-stop and versatile production at the very low operational costs.

## oneECG Academy

Bobst Firenze is BOBST Center of Excellence for inline flexo printing. Its Competence Center is also home to the oneECG Academy where printers can experience and test end-to-end turnkey solutions that flow from pre-press through to printing, converting and data storage. The pre-press facility is equipped with state-of-the-art of ESKO and DuPont equipment including the Kongsberg Cutting Table and the ESKO and X-Rite software for color management.

## Open loop workflow

From job creation to final delivery, we collaborate with the industry's top-leading companies for a seamless implementation of the workflow in their environment.



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# **Digital age manufacturing** happening with BOBST Connect

**BOBST Connect** is an end-to-end, user-centric digital platform that enhances and increases your printing and packaging productivity. It's designed to help you make the most of the data your machine generates, improving efficiency across your value chain.

As well as exceptional data insights, BOBST Connect helps to orchestrate and improve your whole production process, from your PDF to the finished product and quality report. It brings data and digital services together in one fully connected platform, with machine insights and expertise built in.

All of this is available to you as part of BOBST Connect Essential, the first subscription level that you receive when you purchase a new BOBST machine.



## Benefits

### Equipment Monitoring

- Boost productivity with equipment monitoring including equipment status and production data analytics

### Performance management

- Identify and optimize production trends with real-time and historical performance data

### Reporting

- Increase profitability with data reporting and trend analysis

### Remote assistance

- Increase machine up-time thanks to
  - Priority access to technical specialists
  - Remote support with video and augmented reality

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# People, technologies and processes

## Site readiness

All begins with a pre-installation audit and site survey of your production floor and workflow to streamline integration with your current production equipment and qualify designated press operators

## Operator training

BOBST assures your operators are qualified, certified and trained including on preventive maintenance and troubleshooting

## Installation & ramp-up support

A BOBST service engineer will follow your production ramp-up confirming that workflow and pre-press and machine are optimized

## BOBST Global Customer Care Center

It provides support for operators to handle all service escalation across all disciplines

## Advanced technological tools

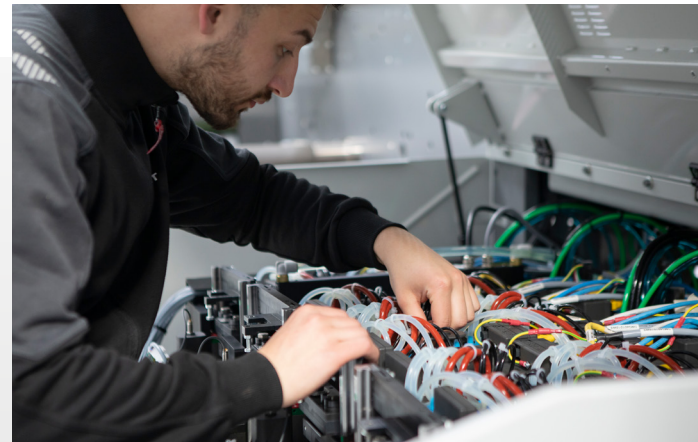
Remote support is complemented with augmented reality technology and predictive failure resolution incl. IoT capabilities

## Onsite support

BOBST provides one of the highest ratios of field service engineers to presses in the business leveraging a global network across the globe

## One-stop, easy-to-use Customer Portal

All BOBST customers have access an online portal providing customized dashboards, knowledgebase, current case management details, status reports for billing and production and updates



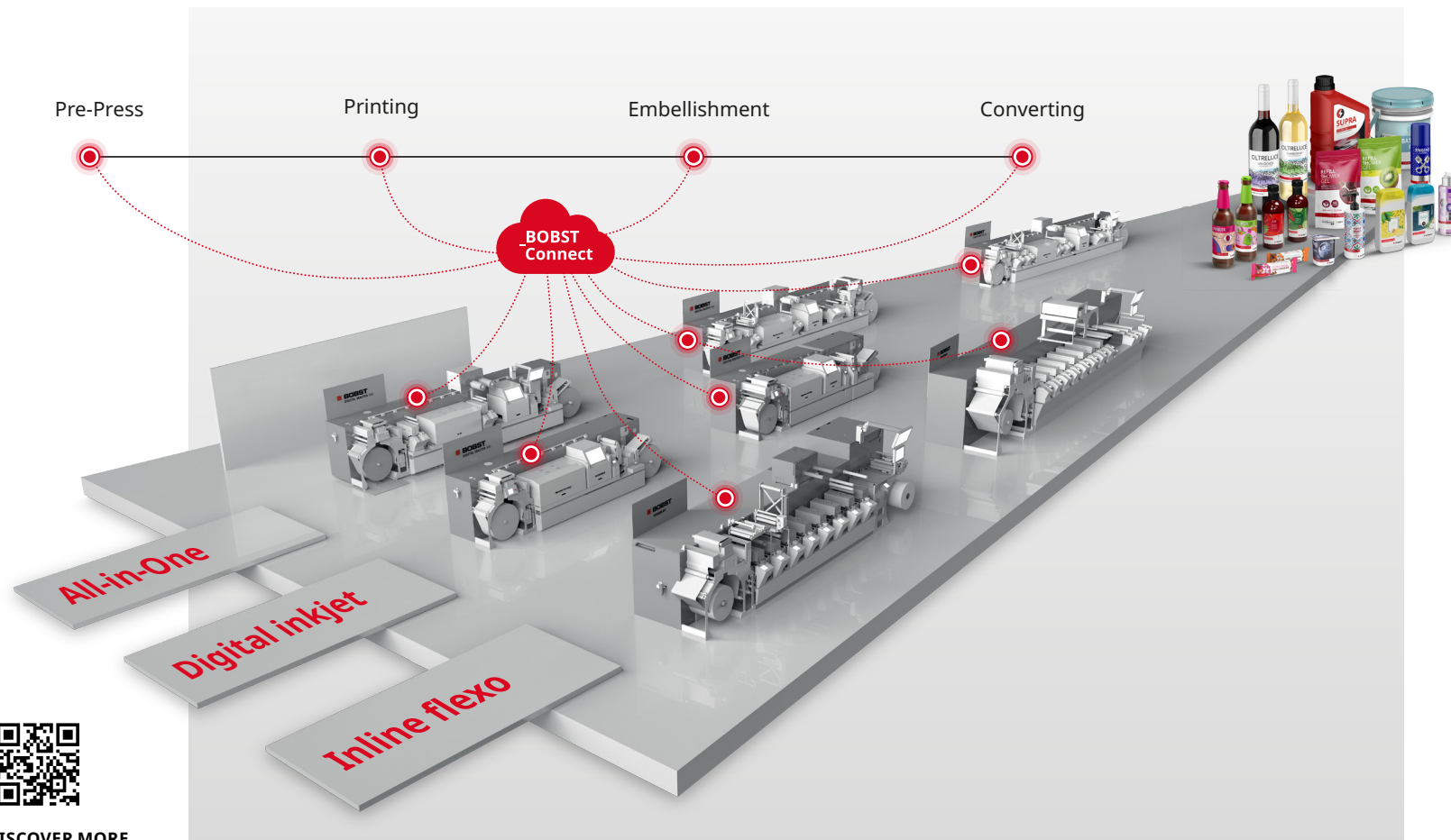
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# **Simplifying** label production



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